Singapore public hospitals in 'outbreak response mode'

All patients at emergency departments screened; protection measures in place

Salma Khalik **Senior Health Correspondent**

All public hospital emergency departments here are in "outbreak re- end" Hepa filters in 124 negative Diseases sponse mode" as Singapore raises its defences against a mysterious, Sarslike virus that is spreading in China. "We cannot rule out the possibility that the new (Wuhan) virus will reach Singapore," Professor Leo Yee is further cleaned with ultraviolet Sin, executive director of the Narays. tional Centre for Infectious Diseases (NCID), told The Straits Times. The

All patients at emergency departments are screened, and those with 24 hours. fever and travel history are isolated. All general practice doctors have naviruses but only seven, including a major outbreak and given a number to call if there

has started spreading from human

are any suspect patients. Any such call from a doctor will activate a special ambulance which will transport the suspected patient acute respiratory syndrome) and straight to the NCID. This is to nip Mers (Middle East respiratory synthe spread of the virus in the bud. The ambulance will then be properly cleaned before it is used again. At the NCID, the patients will be called the 2019-nCoV.

only into the rooms, not out of them. The air in the rooms is sucked out through high-efficiency particulate air, or Hepa, filters. Prof Leo said the NCID has "high-

pressure isolation rooms which executive clean 99.999 per cent of contamidirector Leo Yee nants, including viruses. As an extra precaution, even after Singapore has a it has gone through the filters, the air stockpile of the

It will take the laboratory between protective four and eight hours to determine if equipment as stakes are higher now that the virus the patient is infected with a coron- well as powered avirus. If that test proves positive, geair purifying netic sequencing will be done to con-respirators firm that it is the new bug. That takes enough to

also been told what to look out for this new one, that spread from hu- occur here. Four types cause the common cold and are mild. The other two are the more dangerous Sars (severe

placed in special negative pressure Prof Leo said that it is not yet

Fifteen medical staff in Wuhan have contracted the bug, currently



National Centre for Infectious

Prof Leo said there are a lot of coro- hospitals should

positive case of the Wuhan bug here people will be told. "We need to be able to share the information and be able to guide the public, as well as the entire public healthcare system, to be able to handle the situation," she said.

But Singapore is not taking

chances. All medical staff dealing

with suspected cases are well pro-

tected with personal protective

equipment (PPE) and powered air

purifying respirators – to filter out

Prof Leo said Singapore has a

stockpile of the disposable PPE as

well as the powered air purifying res-

pirators - enough to supply all hospi-

tals should a major outbreak occur

here. "Yes it is expensive, but protec-

tion of staff is the most important

thing," said Prof Leo, a veteran of the

Sars outbreak in 2003, when medi-

cal staff caring for infected patients

were among the 238 people infected

The 330-bed NCID, which opened

slightly over a year ago, has more

than 100 "surge beds" which are

kept empty and on standby for na-

Although the flu vaccine does not

protect against the Wuhan bug, she

said it is a good idea to get vacci-

nated. On a national level, it will "cut

She added that should there be a

down on the background noise".

any possible virus.

and the 33 who died.

tional emergencies

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The negative-pressure ward (above) at the National Centre for Infectious Diseases, where air flows only into the rooms, not out of them. Medical workers (right) will don personal protective equipment and powered air purifying respirators. ST PHOTOS: DESMOND FOO

Measures put in place in Singapore

WIDER DEFINITION

Singapore's Ministry of Health has widened its definition of suspect cases, and it will now include anyone with pneumonia who had been to China – not just Wuhan – within 14 days of the start of the illness. Anyone with acute respiratory infection who has been to any hospital in China within a fortnight of getting ill will also be treated as a suspect case.

MORE SCREENINGS From today, Changi Airport will conduct temperature screening for all flights from China, and not just

those from Wuhan. So far, all seven

suspected cases in Singapore have proven not to have the Wuhan bug.

departments are screened, and those with fever and travel history are isolated. At the National Centre for Infectious Diseases (NCID), the patients will be placed in special negative pressure isolation rooms, where air flows only into the rooms, not out of them. The air in the rooms is sucked out

All patients at emergency

through high-efficiency particulate air, or Hepa, filters. As an extra precaution, even after it has gone

Precautions for the public through the filters, the air is further cleaned with ultraviolet rays.

GP DOCS ON THE WATCH All general practice doctors have been told what to look out for and given a number to call if there are any suspect patients.

SPECIAL AMBULANCES Any such call from a doctor will

who are sick. Observe good personal hygiene activate a special ambulance which Wash hands with soap will transport the suspected patient frequently, such as before eating, to the NCID. This is to nip the after going to the toilet, or if spread of the virus in the bud. The dirtied through sneezing or ambulance will then be properly coughing. cleaned before it is used again.

Avoid contact with live animals,

including poultry and birds. Do

Avoid close contact with people

not eat raw or undercooked meat.

or runny nose. Cover your mouth with a tissue when coughing or sneezing, and dispose of the soiled tissue paper in the rubbish bin immediately. Seek medical attention promptly if you are feeling unwell.

• Wear a mask if you have a cough

Experts advise protective steps against the virus

Joyce Teo

Health practitioners and experts advised people to protect themselves by maintaining simple, practical hygiene practices such as washing one's hands often. Clinic chain Raffles Medical said human coron-

aviruses most commonly spread from an infected person to others through the air by coughing and sneezing, close personal contact, and touching one's mouth, nose, or eyes after touching an object or surface with the virus on it, before washing one's hands. Although vaccination against influenza does not confer protection, Raffles Medical said people should still

get vaccinated, especially if they are planning to travel. "This will prevent you from contracting influenza symptoms and signs that may mislead screening authorities at temperature checkpoints, and result in unnecessary anxiety and delays to your travel," it said. Dr Edwin Chng, medical director of Parkway Shenton, said travellers should avoid contact with live animals and consumption of raw or undercooked meat

and avoid close contact with people who are unwell or showing symptoms of illness. Infectious disease experts said Singapore is better pre-

pared to handle an outbreak today. Professor Paul Tambyah, from the department of medicine at the NUS Yong Loo Lin School of Medicine, said: "I think that we should be concerned but there are plenty of measures in place to detect cases, isolate and treat them appropriately in Singapore as well as in the other countries in the region." Associate Professor Hsu Li Yang, the programme leader (infectious diseases) at NUS Saw Swee Hock School of Public Health, said Singapore is far better prepared today than it was during the Sars outbreak 17 years ago, and the impact of the new virus, if it was imported to Singapore, was likely to be negligible. "China's healthcare system and disease outbreak control capabilities have also improved dramatically since 2003 and I believe they will contain the outbreak." Dr Leong Hoe Nam, an infectious disease specialist at Mount Elizabeth Novena Hospital, advised caution

when travelling to China. He said individuals who suspect they might have the virus must come forward to be tested and isolated if necessary. "The more the virus roams free, the more it adapts to

humans and the easier the transmission," he said.

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InBrief

possible case of virus MANILA • Philippine health investigating what may be the country's first case of an infection involving a mysterious Sars-like coronavirus first detected in

China's Wuhan province. A five-year-old boy was taken : Chinese city. to a hospital in Cebu City, in central Philippines, just hours after he arrived with his mother from Wuhan on Jan 12. He was coughing and had a fever. Health Secretary Francisco Duque said the Bureau of Quarantine is now working with airlines and the airport authorities "to strengthen border surveillance", and the Epidemiology Bureau will be stepping up its community

Suspected Aussie case isolated at home

REUTERS, PHILIPPINE DAILY INQUIRER/ASIA NEWS NETWORK

surveillance.

CANBERRA • A man showing symptoms of a Sars-like virus after visiting China is being held in isolation at his Australian home, in the country's first suspected case of the coronavirus, health officials said yesterday.

introduce from tomorrow heightened medical screening for travellers arriving on three weekly flights in Sydney from Passengers would be given an information pamphlet and

asked to present themselves if they had a fever or suspected they might have the disease. Australia said the measures offered only limited protection. AGENCE FRANCE-PRESSE AGENCE FRANCE-PRESSE

India widens thermal screening at airports

NEW DELHI • India is expanding thermal screening of passengers arriving from China, including Hong Kong, to seven airports, said the Ministry of Civil Aviation. On top of three airports -New Delhi, Mumbai and Kolkata – identified earlier, airports in Chennai, Bangalore, Hyderabad and Kochi have been added. India has so far been spared

from the outbreak, with not a

single suspected case.

SHANGHAI/BEIJING • Chinese Trip.com to Alibaba Group's Fliggy said yesterday that they would offer free cancellations on bookings made for Wuhan amid mounting fears over a viral outbreak in the central

policy would be extended to the new coronavirus. travellers who had been the virus to reschedule or

Australia said it would

Measures in place at

Emirates (UAE), a major international transit hub. has ports are ready to handle coronavirus cases following the outbreak, state news agency WAM reported. No cases of the virus have

The report did not disclose whether any new countermeasures had been introduced since the outbreak.

Philippines probes first Free cancellation for

isolation rooms, where air flows known whether this virus is as

reported its first confirmed case of the new Sars-like warned the public against Wuhan where it emerged. The patient is a Taiwanese woman in her 50s, living in Wuhan, who returned to the island on Monday with

coughing and a sore throat. to quarantine officials upon was immediately taken to a island's Centres for Disease

UAE airports, ports

made sure that its airports and

Ounar.com, said in separate users who had been put under have issued policies allowing cancel their flights for free, the

She reported her symptoms arrival at Taoyuan airport and hospital for treatment, said the

DUBAI • The United Arab

REUTERS

Wuhan travel bookings

The companies, which also

First confirmed case of virus in Taiwan

TAIWAN • Taiwan yesterday coronavirus as the government travelling to the Chinese city of

symptoms including fever,

been reported in the country, it Sars did, says top expert

include Meituan Dianping and but similar statements that the quarantine or diagnosed with At least nine Chinese airlines quarantined or diagnosed with

Beijing Daily reported.

New virus won't cause massive outbreak like

in the central Chinese city of human. Wuhan will not evolve into a mas- Dr Zhong now heads a high-level sive outbreak similar in scale to the expert team under the National Sars outbreak 17 years ago, said a Health Commission.

renowned Chinese scientist. Dr Zhong Nanshan, who discov- people in Guangdong province ered the severe acute respiratory were infected through human-to-2003, said on Monday that evinews conference.

BEIJING • The pneumonia outbreak Wuhan can spread from human to

"It has been confirmed that two

syndrome (Sars) coronavirus in human transmission," he said at a dence has shown that the new virus
The two patients had not been to causing the pneumonia outbreak in Wuhan, where the outbreak

turned from the city, he said.

surge in the number of cases over vention and other national insti- believe the outbreak will not have gist at the Chinese Centre for Dis- versed," he added.

their family members recently re-ciency in testing suspected cases.

started, but they became sick after ing methods have improved the effi-process, said Dr Zhong. ers have also tested positive for the have been authorised to confirm Sars outbreak 17 years ago, he said.

But the pneumonia outbreak in a member of the Chinese Academy twice. Previously, confirmation break was reported, and we have which will lead to the disease necessary. "With proper public could be done only by the Chinese very good virus monitoring and spreading more easily, he said.

From top: Thermal scanners in use at Kuala Lumpur

at Noi Bai International Airport in Hanoi yesterday; and

this month at Taoyuan International Airport in Taiwan.

Left: Quarantine staff disinfecting Incheon airport in

PHOTOS: AGENCE FRANCE-PRESSE

South Korea yesterday. PHOTO: EPA-EFE

passengers arriving from Wuhan being screened earlier

International Airport yesterday; a health quarantine sign

The other reason is that in the Wuhan will not evolve into a masthe new virus is expected to con-In addition, some medical work- past few days, the local authorities sive outbreak similar in scale to the tinue rising during the Chinese outbreak can be contained through virus, which proves the virus is in- such cases on their own, as long as "We identified the new coron- Friday, due to the large number of stage, but coordinated prevention fectious, said Dr Zhong, who is also the patient has tested positive avirus just two weeks after the out-people travelling nationwide, and control efforts nationwide are

omy that Sars did 17 years ago." However, the number of cases of stage. New Year holiday, which starts on intensified efforts in the early He said a main reason for the Centre for Disease Control and Prequarantine measures," he said. "I Dr Zeng Guang, chief epidemiolo- creasing number of cases can be re-

the outbreak is still at an early

health measures, the trend of an inthe past few days is that new test- tutes, which slowed down this the impact on society and the econ- ease Control and Prevention, said CHINA DAILY/ASIA NEWS NETWORK

Timeline of how new coronavirus

Alarm raised

The World Health Organisation (WHO) is alerted by the Chinese authorities about a string of pneumonia-like cases in Wuhan, a city of 11 million peo-

The United States Centres for Disease Control and Prevention (CDC) identifies a seafood market suspected to be at the centre of the outbreak. It is closed on

JAN 9, 2020 New coronavirus

The WHO says that the out-

ported to have been infected, with seven in a serious condi-

Virus worries rattle Asian markets, and the gloom spreads to Europe

HONG KONG • A deadly virus ema- zhen dropped 1.7 per cent. nating from China helped bring this In line with other Asian markets, year's global risk rally to a halt yester- Singapore stocks slid yesterday on day, hammering sentiment in Asian mounting worries about the spread markets before the gloomy mood of the virus that originated from

spilled over into Europe. Traders closing out positions in The Straits Times Index ended the run-up to the Chinese New Year down 32.92 points, or 1 per cent, at noliday may have accelerated 3,247.17, after dropping as much as noves in Asia, where Hong Kong eq- 1.4 per cent earlier in the day. uities slumped 2.8 per cent and the MSCI Asia-Pacific Index dropped losing stocks against 138 gainers. more than 1 per cent.

Luxury stocks in Europe, many securities worth \$1.11 billion changheavily exposed to the Chinese maring hands. ing in the key holiday period. Wong, asset management director cent, to \$4.94. at Amber Hill Capital. "We are hold-

umped a lot earlier." The outbreak is the latest test for per cent, to \$1.71 in anticipation of global equities, which have notched higher demand for its products. multiple record highs since the start of the month.

travel-related stocks and some tech-

back in the S&P 500, although the inper cent, to 9.2 cents. dex rebounded quicker than its Asian equity peers. Futures for the main US gauge Asian countries," said Mr Khoon slipped yesterday as Asian markets Goh, head of Asia research at Ausbore the brunt of concerns. The tralia and New Zealand Banking Hang Seng China Enterprises Index Group in Singapore. tumbled more than 3 per cent in

Hong Kong. Moody's Investor Service down- BLOOMBERG grade of the city state's rating while China's new top official there urged • Additional reporting by policymakers to enact national se- Ann Williams curity legislation. The CSI 300 In-

dex of stocks in Shanghai and Shen- SEE BUSINESS C4

Wuhan, a city in central China. The pain was widespread with 350

ket, slid on concern that the out- Airlines, travel and related compabreak will disrupt travel and spend- nies were some of the biggest stock losers in the region. Shares of Singa-"It is uncertain how the virus outpore Airlines skidded 18 cents, or 2 break will develop in China during per cent, to \$8.84, while services the holidays," said Mr Jackson provider Sats fell 12 cents, or 2.37 per

Trading was heavy with 2.67 billion

Some stocks profited from being ing more cash and we are avoiding makers of "protective products". Malaysia-based rubber glove mannology stocks that had already ufacturer Top Glove, for example, saw its shares jump 12 cents, or 7.55

Shares of Medtecs International which makes hospital apparel and Previous viral episodes like the disposable personal protective leadly Sars outbreak spurred a pull- equipment – soared 4 cents, or 76.9 "The bigger concern would actually be if it starts to spread to other

"If it is serious enough to impact tourism, then other currencies in The decline was exacerbated by a the region will be more vulnerable."

More deaths

Wuhan officials reveal three more deaths in the city, bringing the tally to six as the number of confirmed cases in mainland China inches closer to 300. By this time, the virus is known to have affected people in Hubei - where Wuhan is located - Beijing, Guangdong, Shanghai and Zhejiang in China. Elsewhere, Taiwan reports its first confirmed case of infection – a Taiwanese businesswoman

AGENCE FRANCE-PRESSE, REUTERS

has spread

DEC 31, 2019

Patients are quarantined and work begins on identifying the origin of the pneumonia.

Jan 1, 2020.

break in Wuhan was caused by a previously unknown type of coronavirus, which covers a broad family ranging from the nesses like Sars. Fifty-nine people are re-

JAN 11

The Chinese health authorities report the death of the first person from the virus.

JAN 13-16 Beyond China

It is known for the first time that the virus has spread beyond China's borders with a case emerging in Thailand, according to the WHO. The victim is a Chinese woman diagnosed with mild pneumonia who was returning from a trip to Wuhan. On Jan 15, China's health commission says no human-tohuman transmission of the virus behind the Wuhan outbreak has been confirmed so

be excluded". The next day, Japan confirms its first case of the virus in someone who had stayed in Wuhan in early January.

JAN 17

A second person, a 69-year-old

man, dies in Wuhan, according to the authorities. The same day, the CDC announces that it will begin screening passengers arriving from Wuhan at three US airports: San Francisco, New York's JFK and

Los Angeles.

ple travel nationwide.

Human to human On Jan 20, a third death and more than 100 new cases are announced in China, sparking concerns ahead of the annual Chinese New Year holiday which begins on Jan 25 and sees hundreds of millions of Chinese peo-

The virus is present in Beijing in the north, Shanghai in the east and Shenzhen in the south. More than 200 cases have been recorded. The virus is also detected in South Korea in a Chinese person who had arrived by plane from Wuhan. China's President Xi Jinping

lutely contained", in his first public comments on the out-Human-to-human transmission is "affirmative", top Chinese infectious diseases expert Zhong Nanshan tells state

says the virus must be "reso-

broadcaster CCTV.

in her 50s who flew back home from Wuhan on Jan 20.